

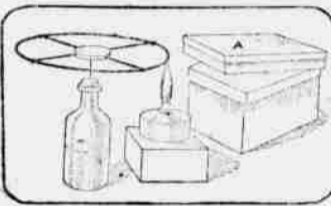
Corner for the Juniors

AMUSING TRICK WITH WHEEL

Seems to Revolve Automatically Without Any External Power—Apparatus is Very Simple.

The mystery of this wheel is that it seems to revolve automatically without any visible external power. It is at the same time an amusing trick and an instructive experiment. The apparatus required is very simple and can be made at home, says the Popular Mechanics.

A glass bottle is half filled with sand and water, so that it will stand securely, and a cork placed in the neck. Into this cork a needle should be inserted so that it projects perpendicularly, which is most easily done by heating one end of the needle to a red heat and then pushing it into the cork as deeply as possible. Into a disk of cork of suitable thickness and at four points on its side, at equal distances apart, are inserted four pieces of copper wire of the same length, each bent at the outer end to form a hook—these copper wires thus forming the spokes of the wheel. The rim is made of a small iron wire bent in a



Mysterious Revolving Wheel.

circular shape and held in the hooks on the ends of the copper wires. The now completed wheel is balanced on the free point on the needle, so that it can turn easily.

Place an alcohol lamp in such a position that when it is lighted the tip of the flame will just reach the rim of the wheel. (Any other flame that will not scot the rim may be used.) In the box A, placed with its bottom level with the wheel, put a horseshoe magnet so that the flame is opposite one of its poles. After the lamp has been lighted for a few seconds, the wheel will begin to revolve, seemingly without cause. Why does it do so? Because the magnet magnetizes or attracts the part of the rim nearest it while cold, but not when it is glowing. Instead, it will attract the cooler part of the rim nearest behind the flame and so on, the wheel thus spinning round, faster in the same proportion as the magnet is stronger and the iron rim smaller.

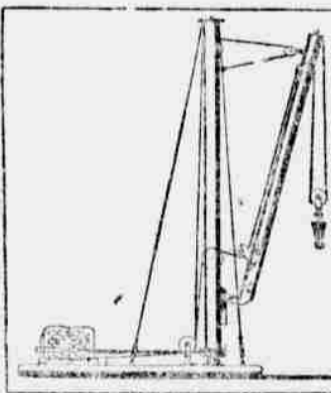
If this experiment is shown before spectators as a trick, the performer may say to the audience that he alone can make the wheel spin around without touching it. Should some one accept his challenge, he may, in a careless way, move the box containing the magnet away or turn it around so that it will not influence the iron ring and then, of course, the wheel will remain immovable.

TO OPERATE A TOY DERRICK

Object of Invention of New York Man is to Provide Mechanism for Handling Small Loads.

The Scientific American in describing an invention of A. Pfeiffer of New York city says:

"In this case the aim of the inventor is to provide a new and improved mechanism for operating toy derricks arranged to raise, lower or swing small loads by the use of a motor driven mechanism easily controlled by children, affording considerable amusement and at the same time providing an instructive toy. A boy or other child can readily control the motor by manipulating the reversing lever thereof, and also readily control the two handles for operating the



Operating a Toy Derrick.

derrick with a view to raise or lower the load, to swing the boom up or down or sideways on turning the post. A side elevation of the invention is shown in the illustration.

Below Par.

Alice went to church with her aunt one Sunday morning. The aunt gave the child a penny to put in the collection plate and then took another coin out of her pocketbook for her own use. Alice leaned over toward her aunt and whispered:

"How much are you going to give, auntie?"

The aunt opened her hand and disclosed a silver dollar.

"Oh, auntie," exclaimed the little girl in great excitement, "don't you do it! It isn't worth it!"—Harper's Bazar.

ON SKATES.

I don't care for an aeroplane, I leave them all behind. I don't care for an auto car—Just make it skates for mine.

Hi, there's Bill Brown, I'll run him some.



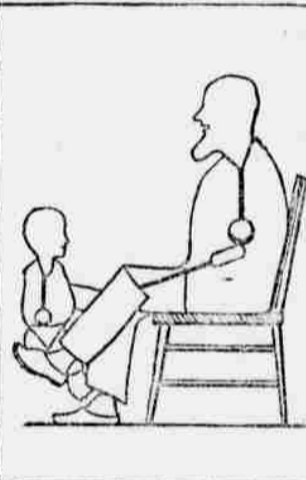
Thinks he can skate. But, say, I've got him beat a half a mile just any kind of day.

It's off to school, then back again—You're sure to be on time if you have got a pair of skates—Keen edged skates, like mine.

UNIQUE TOY FOR SMALL BOY

Old Man's Leg Swings and Dangles Youth Upon Foot—Weight Keeps Up Motion for Long Time.

What small boy has not ridden "A cock horse to Danbury Cross," or wherever the town was? A Missouri man has devised a toy which portrays this operation in an amusing fashion. The figure of an old man, probably meant for grandfather, is seated on a chair. One leg is crossed over the other and swings on a pivot. A balancing weight is secured to the upper end of the moving leg, and this weight moves with the hollow body of the man and keeps the leg swinging for a long time. The figure of a small boy is seated astride the old man's foot, and hanging inside his body is a weight which counterbal-



An Amusing Toy.

ances that on his grandfather's leg and prolongs the motion. Still another weight hangs from the old man's head and makes him nod back and forth as he dandles his grandson up and down.

RIDDLES.

Why is education like a tailor? Because it forms our habits.

Why are the legs of an ill-bred fellow like an organ grinder? Because they carry a monkey about the streets.

Why is a blacksmith like a safe stealer? Because one is a horseshoer and the other is a sure horse.

Why is a pawnbroker like a drunkard? Because he takes the pledge but cannot always keep it.

Why are photographers the most unkind of all tradesmen? Because when we make application for our photographs they begin with a negative.

Why are gloves unsuitable articles? Because they are made to be kept on hand.

Why do sheep resemble fast young men? Because they gamble (gamble) in their youth, are always on the turf, are very frequently blacklegs, and are universally deuced.

What part of a locomotive requires the most attention? The "tender" part.

The Reason.

The family were seated at the luncheon table in the seashore cottage.

"We had a fine game," said father, triumphantly recounting the morning's battle on the diamond. "I caught two flies."

Little Lottie was silent, evidently thinking it over. At last, "Mother," she cried, with the manner of one who has made a great discovery, "I know now why daddy don't ever play baseball in the winter time. It's because there isn't any flies."—Lippincott's.

Ethel's Climax.

Little Ethel had been brought up with a firm hand and was always taught to report misdeeds promptly. One afternoon she came sobbing penitently to her mother.

"Mother, I—I broke a brick in the fireplace."

"Well, it might be worse. But how on earth did you do it, Ethel?"

"I pounded it with your watch."—Harper's Bazar.

The KITCHEN CABINET

WE MAY live without books—what is knowledge but grieving? We may live without hope—what is hope but deceiving? We may live without love—what is passion but pining? But where is the man that can live without dining?

FISH SOUPS.

Fish soup is rather an unusual dish in most American families, though for those who enjoy fish, the soup is most acceptable.

Swedish Fish Soup.—Reheat one quart of fish stock and add one onion, six potatoes, a carrot and a small bunch of parsley, all cut very fine. Simmer for half an hour, add two cupsful of veal stock, a dozen oysters and a half glass of orange juice with salt and pepper to taste. Cook until the oysters ruffle, and serve.

The fish balls that come canned are delicious served in a cream soup, which may be thickened with egg or flour and seasoned with onion.

Austrian Codfish Soup.—Remove the skin and bones from two pounds of fresh codfish and chop fine. Add a carrot, an onion, a turnip, two stalks of celery and a bunch of herbs, all minced. Add a quart of water and simmer two hours, then add the juice of a lemon, salt, pepper and nutmeg to season. Press through a sieve, reheat and thicken with a tablespoonful each of butter and flour, cooked smooth and added to a pint of milk. Bring to the boiling point and pour over the yolk of an egg, well beaten.

Norwegian Fish Soup.—Reheat six cups of fish stock. This stock is the water in which the fish has been boiled. Blend together three tablespoonfuls each of butter and flour; add two cups of milk and cook until thick, stirring constantly. Add the thickening to the boiling stock and two eggs beaten smooth with a little cold milk. Line the thirteen with split Boston crackers which have been soaked in milk until soft. Pour the hot soup over and serve.

Spanish Salmon Soup.—Cook together a quart of stock, a sliced onion, a half can of salmon; rub through a sieve, add a quart of boiling milk, season with salt and pepper and minced parsley. Thicken with butter and flour and serve with whipped cream.

NICE leg of mutton, my Lucie. I pray thee have ready for me: Have it smoking and tender and juicy. For no better meat can there be.—Thackeray.

MEATS FOR LUNCHEON OR SUPPER.

Take slices of rare roast beef and roll each around a thin slice of bacon which has been fried until transparent but not crisp. Skewer with a tooth pick or bind with twine, and cook in boiling water five minutes. Drain, remove the strings. Add the bacon fat to some of the roast beef gravy, season with catsup or Worcestershire. Boil up once and pour over the olives. Serve hot.

Creamed Calf's Liver.—Use the liver left over from a previous meal. Chop very fine and add to a cream sauce; heat and pour over buttered toast and serve garnished with crisp pieces of bacon.

Broiled Breast of Lamb.—Cut a thin slice from the breast of lamb, removing some of the extra fat. Broil slowly over a clear fire, cover with dots of butter, and serve with mint sauce.

Mock Fried Oysters.—Cut pieces of veal steak into pieces the size of an oyster, pound until well broken, dip in egg and crumbs and fry in deep fat.

Boiled frankfurters served with potato salad makes a nice luncheon, not forgetting the rye bread and a green onion.

Ham Croquettes.—Mince cold boiled ham very fine, add an equal quantity of bread crumbs, cold boiled rice or mashed potato. Mix with an egg, shape in croquettes, dip in egg and crumbs and fry in deep fat. Drain on brown paper.

Veal minced and added to a cream sauce, served on toast, is well liked as a luncheon dish. These dishes may all be prepared from small left-overs, with no, or very little, additional expense.

Kellie Maxwell.

Mountain Weather Station.

The Argentine government has established a meteorological station at San Esteban, province of Cordoba, at an altitude of 4,000 feet.

Matter Easily Settled.

Butler—"Quick! Quick! Your wife, sir, is climbing out of the window to elope with your chauffeur, sir." Master—"Humph! Ask them, as they pass the newspaper office, to insert an 'ad' for a new chauffeur."

An Early Sign.

"I am sure baby is going to be a great actress."

"Why?"

"She is so intensely interested in her own photograph. She can look at it for hours and hours."

SPIRIT IN TUBERCULOSIS WAR

Nineteen Million Dollars Expended Last Year in Fight Against the Dread White Plague.

Nearly \$19,000,000 was spent in the anti-tuberculosis campaign in the United States during the year 1912, according to the fourth annual statistical statement of expenditures in this movement issued by the National Association for the Study and Prevention of Tuberculosis. The expenditures during the year for sanatorium and hospital construction and treatment make the largest single item in the total, amounting to nearly \$16,800,000. This is an increase of nearly \$5,000,000 over the same group of expenditures for the year 1911. The anti-tuberculosis associations and committees spent over \$765,000, while dispensaries and tuberculosis clinics spent over \$500,000. Over \$415,000 was spent for the maintenance and establishment of open-air school and fresh air classes, which is more than double the amount spent for this purpose in 1911. Official, state and municipal expenditures outside of the maintenance of institutions, which are included in the other totals, amounted to \$230,000. In addition to these figures, about \$500,000 was spent by hospitals for insane and penal institutions in caring for their tuberculosis inmates.

FROM EXPERIENCE.



Mr. New Wed—A wife is a gift from heaven. We get the sunlight and the gentle rain from heaven.

Mr. Old Wed—And also the thunder storms.

False Alarm. "They say that Wombat is a genius."

"Nothing to that story. It's a canard. I loaned him a dollar once and he paid me back all right enough."

Short on Breath. Patience—What sort of a dog is that?

Patience—A knickerbocker poodle. Patience—A knickerbocker poodle? Patience—Yes; don't you notice his short pants?

Not a Complaint. "Well, Oscar, we ought to get in that picture also, I should think."

"No, you needn't be on every plate. I took my camera along to have some pleasant recollections of the trip."

Mrs. Winslow's Soothing Syrup for Children settling, softens the gums, reduces inflammation, allays pain, cures wind colic, etc. a bottle.

When your hair starts going it doesn't say, "Au revoir." It says "good-bye."

The man who consults a beauty doctor evidently has a leaky brain box.

Invalid Men and Women

I will give you FREE a sample of Dr. Pierce's Pleasant Pellets that have brought health and happiness to thousands—also a book on any chronic disease requested.



Dr. Pierce's Golden Medical Discovery has the endorsement of many thousands that it has cured them of indigestion, dyspepsia and weak stomach, attended by sour risings, heartburn, foul breath, coated tongue, poor appetite, gnawing feeling in stomach, biliousness and kindred derangements of the stomach, liver and bowels.

"In coughs and hoarseness caused by bronchial, throat and lung affections, except consumption, the 'Golden Medical Discovery' is a most efficient remedy, especially in those obstinate, hang-on-coughs caused by irritation and congestion of the bronchial mucous membranes. The 'Discovery' is not so good for acute coughs arising from sudden colds, nor must it be

During many years of practice I have used numerous combinations of curative medicines for liver ills. I have kept a record of the result in case after case, so that my staff of physicians and surgeons, at the Invalids' Hotel, Buffalo, N. Y., are able to diagnose and treat cases at a distance with uniform good results.

But for the permanent relief of blood disorders and impurities, I can recommend my "Golden Medical Discovery" a blood medicine without alcohol or other injurious ingredients.

R. V. PIERCE, M.D., Buffalo, N. Y.

Nature's Way Is The Best

Buried deep in our American forest we find bloodroot, queen's root, mandrake and stone root, golden seal, Oregon grape root and cherry bark. Of these Dr. R. V. Pierce made a pure, strong, extract which has been favorably known for over forty years. He called it "GOLDEN MEDICAL DISCOVERY." This "Discovery" purifies the blood and tones up the stomach and the entire system in Nature's own way. It's just the tonic builder and tonic you require.

expected to cure consumption in its advanced stages—no medicine will do that—but for all the obstinate, chronic coughs, which, if neglected, or badly treated, lead up to consumption, it is the best medicine that can be taken."

Sold in tablet or liquid form by all principal dealers in medicines, or send fifty one-cent stamps for trial package of tablets.

To find out more about the above mentioned diseases and all about the body in health and disease, get the Common Sense Medical Adviser—the People's Schoolmaster in Medicine—revised and up-to-date book of 1,008 pages. Cloth-bound, sent post-paid on receipt of 31 cents in one-cent stamps to pay cost of wrapping and mailing only. Address: Dr. Pierce's Invalids' Hotel, Buffalo, N. Y.

PUTNAM FADELESS DYES

Color more goods brighter and faster colors than any other dye. One life package colorfast dyes. They dye in cold water better than any other dye. You can dye any garment without ripping apart. Write for free booklet—How to Dye, Bleach and Mix Colors. MONROE DRUG COMPANY, Quincy, Ill.